

CLAIMS

1. A kit for reaming a series of progressively larger bores in a work piece comprising:

at least two reamers each having a plurality of flutes extending radially from a central shaft, the flutes of each reamer extending a different radial distance, the central shaft of each reamer having same diameter; and

a rotatable guide bushing having a plurality of recesses for receiving dependent said flutes, said recesses open to a central opening having a diameter greater than said reamer shaft diameter.

2. The kit as set forth in claim 1 further including a bushing holder wherein said guide bushing rides in a holder fixed with respect to the bore being enlarged.

3. The kit as set forth in claim 1 wherein said recesses extend radially from said bushing central opening a distance greater than the largest radial extent of the flutes of the at least two reamers.

4. The kit as set forth in claim 3 wherein the bushing has a number of recesses equal to or greater than the number of flutes on said reamer.

5. The kit as set forth in claim 1 wherein said recesses expand in width on moving radially outwardly from said central opening.

6. The kit as set forth in claim 5 wherein said reamer flutes expand in width in moving radially outwardly from said central shaft.

7. The kit as set forth in claim 1 wherein the flutes run parallel to a longitudinal axis of the reamer central shaft.

8. The kit as set forth in claim 1 wherein said reamer bushing recess receives at least two flutes.

9. An instrument for reaming a bone canal comprising:
a reamer having a longitudinally extending central shaft with a plurality of cutting flutes extending radially therefrom;

a rotatable bushing having an axially extending a central opening and a plurality of radially extending recesses intersecting with the central opening for receiving cutting flutes and a holder fixed with respect to the bone canal; and

a holder for rotatably receiving the bushing and aligning the same with the bone canal.

10. The instrument as set forth in claim 9 wherein said recesses extend radially from said bushing central opening a distance greater than the largest radial extent of the flutes of the at least two reamers.

11. The instrument as set forth in claim 9 wherein the bushing has a number of recesses equal to or greater than the number of flutes on said reamer.

12. A reamer bushing for use with a plurality of different diameter reamers, the reamers each having a plurality of longitudinally flutes extending from an inner shaft, outer radial ends of the flutes defining the reamer diameter, comprising:

a body with a bearing for engaging a fixture in which the bushing is mounted;

longitudinally bore formed in the body for receiving the inner shaft of the reamer; and

a plurality of recesses extending radially outward of said bore and open thereto each recess for receiving at least one of said plurality of flutes.

13. The reamer as set forth in claim 12 wherein said recesses extend radially from said bushing central opening a distance greater than the largest radial extent of the flutes of the at least two reamers.

14. The reamer as set forth in claim 13 wherein the bushing has a number of recesses equal to or greater than the number of flutes on said reamer.

15. The reamer as set forth in claim 12 wherein said recesses expand in width on moving radially outwardly from said central opening.

16. The reamer as set forth in claim 15 wherein said reamer flutes expand in width in moving radially outwardly from said central shaft.

17. The reamer bushing as set forth in claim 1 wherein said bushing has at least three recesses formed therein.

18. The reamer bushing as set forth in claim 12 wherein said bushing has at least three recesses formed therein.

19. The reamer bushing as set forth in claim 8 wherein said bushing has at least three recesses formed therein.